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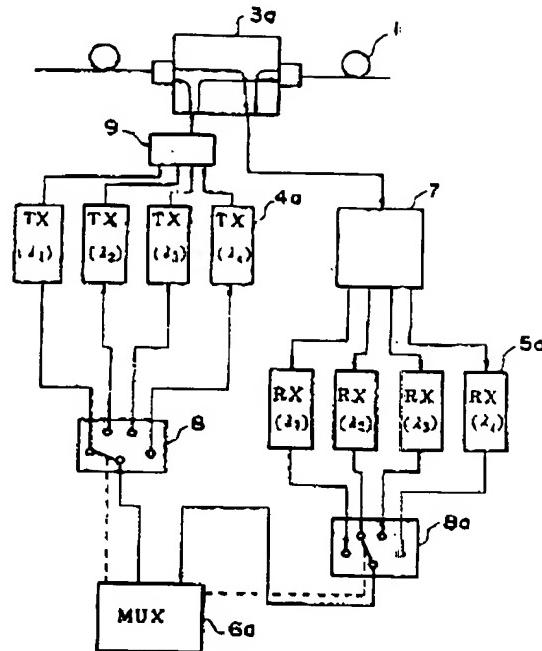
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TITLE : DATA TRANSMITTER



ABSTRACT : PURPOSE: To improve the efficiency of transmission, by dividing a TDMA frame into plural time slots by means of plural types of optical signals of different wavelengths and permitting the simultaneous transmission of optical signals having different wavelengths even for the same time slot.

CONSTITUTION: An optical transmitter transmits plural types of optical signals of different wavelengths to each of plural optical stations which are connected to each other via a common optical fiber transmission line 1. A demultiplexer 7 separates the light of each wavelength from plural types of optical signals of different wavelengths which are received from the line 1. Then plural time slots are set into the frame which is repeated with a prescribed period. The wavelength used to an optical signal transmitted through each slot is designated by each optical station so as to avoid transmitting an optical communication of the same wavelength within the same time slot in a different way from the optical stations.

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